

SAFAROV, T., kand.biolog.nauk, assistant

The darkling beetle *Prosodes undulata* Kr. as a serious pest of farm crops in Uzbekistan. Zashch.rast.ot vred.i bol. 4 no.6:38-39 N-D '59. (MIRA 15:11)

1. Uzbekskiy sel'skokhozyaystvennyy institut imeni V.V.Kuybysheva.
(Samarkand Province--Field crops--Diseases and pests)
(Samarkand Province--Darkling beetles--Extermination)

SAFAROV, T., ordinator

Physical therapy in fractures of dental roots. Stomatologiya 40
no.2:90-91 Mr-Apr '61. (MIRA 14:5)

1. Iz fizioterapevticheskogo otdeleniya (zav. L.R.Rubin) Moskovskogo
meditsinskogo stomatologicheskogo instituta (direktor - dotsent G.N.
Beletskiy).

(PHYSICAL THERAPY)

(TEETH)

SAFAROV, T.

Darkling beetles (Coleoptera, Tenebrionidae) injurious to field crops in Samarkand Province. Ent. oboz. 41 no. 4: 746-750 '62.
(MIRA 16:1)

1. Samarkandskiy sel'skokhozyaystvennyy institut imeni Kuybysheva, Samarkand.

(Samarkand Province--Darkling beetles)

(Samarkand Province--Field crops--Diseases and pests)

SAFAROV, T. K., Cand Agric Sci (diss) -- "Aspects of growing sugar-beet seeds under irrigated conditions in Azerbaydzhan". Kirovabad, 1959. 18 pp
(Committee on Higher and Inter Spec Educ of the Council of Ministers Azerb SSR, Azerb Agric Inst), 225 copies (KL, No 14, 1960,135)

SAFAROV, T.K., kand.sel'skokhozyaystvennykh nauk

Sugar beets as stubble crop in the Azerbaijan S. S. R.

Zemledelie 24 no.5:43-45 My '62.

(MIRA 15:7)

(Azerbaijan--Sugar beets)

MOMOT, Ya. G.; SOROCHENKOV, A.F.; LITOVCHENKO, M.K.; SAFAROV, T.S.;
BEGLYAROVA, L.S.

"Plant breeding" by N. A. Maisurian. Reviewed by IA. G. Momot and
others. Zemledelie 23 no.6:94-95 Je '61. (MIRA 14:6)

1. Kafedra rasteniyevodstva Samarkandskogo sel'skokhozyaystvennogo
instituta.

(Field crops)
(Maisurian, N.A.)

86449

9.4160 (3201, 1003, 1137)
26.2420

S/181/60/002/011/038/042
B006/B060

AUTHORS: Gross, Ye. F., Razbirin, B. S., and Safarov, V. I.
TITLE: A Study of the Longwave Edge of Intrinsic Absorption of
Polycrystalline Films of CdS and ZnSe at Low Temperatures
PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 11, pp. 2945-2949

TEXT: The authors prepared CdS and ZnS films by sublimating the powdery or crystalline initial substances onto glass or quartz bases; the films were between 0.04 and 1-2 μ thick, the sputtering time ranging between 5 and 30 min. A total of over 100 specimens were examined which were all subjected to a considerable temperature gradient during sublimation (along the base the temperature varied from 600-800 $^{\circ}$ C to room temperature). Fig. 1 shows the spectra taken on a 0.42 μ thick CdS film at 77.3 $^{\circ}$ K in the range of the longwave absorption edge; while the absorption spectrum of the film has a smooth course on the "cold" part of base b, that of the film on the "warm" base (a) exhibits three distinct peaks at 4878, 4838, and 4706 A which can be assigned to the three lines with 4870, 4840, and 4720 A exhibited by the CdS monocrystal. The shift is ascribed to deformation. Card 1/3

86449

A Study of the Longwave Edge of Intrinsic
Absorption of Polycrystalline Films of CdS
and ZnSe at Low Temperatures

S/181/60/002/011/038/042
B006/B060

tion owing to the backing and the great number of defects. The first two peaks have a half-width of 10, the third one of 30 Å. SnSe exhibits the same effect. The "hot" part exhibits three peaks, two distinct ones at 4430 and 4412 Å, and a very weak one at 4365 Å. The half-widths are the same. One of these maxima has been already observed by G. A. Zholkevich. An investigation of the films at 4.2°K did not give different results. Electron diffraction studies showed that the difference in the spectra of "cold" and "hot" films cannot be due to different crystallization forms or amorphism of the "cold" film. The differences are explained by the fact that films forming on the "hot" parts of the base consist of considerably larger and less defective crystals than those forming on the "cold" parts. This assumption has been checked experimentally. M. A. Rumsh and V. N. Shchemelev as well as V. N. Vertsner and M. I. Rudenok are thanked for assistance in the experiments; K. V. Shalimova and N. V. Karpenko are mentioned. There are 3 figures and 7 references: 5 Soviet, 1 British, 1 French, and 1 German.

Card 2/3

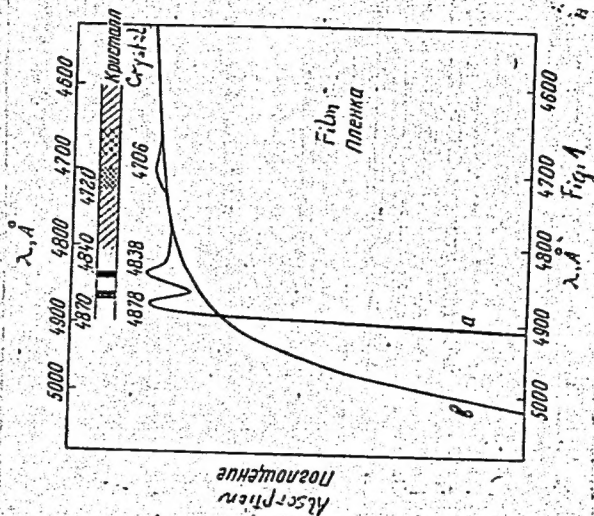
86449

A Study of the Longwave Edge of Intrinsic
Absorption of Polycrystalline Films of CdS
and ZnSe at Low Temperatures

S/181/60/002/011/038/042
B006/B060

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR Leningrad (Institute
of Physics and Technology of the AS USSR, Leningrad)

SUBMITTED: July 28, 1960



Card 3/3

9.4160

26.2421

29814

S/020/61/140/006/010/030

B104/B102

AUTHORS: Gross, Ye. F., Corresponding Member AS USSR, Razbirin, B. S.,
and Safarov, V. I.

TITLE: The Stark effect on the exciton levels of a cadmium-sulfide
crystal

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 6, 1961, 1285 -
1288

TEXT: The authors studied the Stark effect on the exciton lines of the
absorption spectrum of thin CdS crystals (from some tenths of microns up
to 10μ) at 4.2°K . When examining the first series of lines, $\Gamma_7 - \Gamma_9$ the
authors used an electric field whose direction coincided with the optical
axis C of the crystal. If the polarization of light is parallel to the
optical axis ($E \parallel C$), the lines corresponding to the excited exciton states
will be most sensitive to the electric field. Up to electric field
strengths of 10 to 15 kv/cm no shift of the line $n = 1$ of this series was
observed. From 100 v/cm onward the lines $n = 2$, $n = 3$ and $n = 4$ showed
a broadening. The short-wave component was shifted toward the violet,
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S/020/61/140/006/010/030

B104/B102

The Stark effect on the exciton levels ...

and the satellite line $\lambda = 4814.8 \text{ \AA}$ of the line $\lambda = 4813.2 \text{ \AA}$ ($n = 2$) was shifted toward the red. When the polarization of light was perpendicular to the optical axis (E $\perp$ C), the line $n = 1$ of the first series showed no shift. The satellite of the line $n = 2$ and its short-wave component are polarized in an electric field with E $\parallel$ C. The long-wave component of the line $n = 2$ is polarized in an electric field with E $\perp$ C. The Stark effect of the lines $n = 3$ and $n = 4$ with E $\perp$ C could not be examined. The Stark effect in electric fields perpendicular to the optical axis of the crystals showed the same character. The first line ($n = 1$, $\lambda = 4826.5 \text{ \AA}$) of the second series of lines ($\Gamma_7 - \Gamma_7$) showed no Stark effect up to field strengths of 10 - 15 kv/cm. The second line ($n = 2$, $\lambda = 4785 \text{ \AA}$), was split up into two lines, independently of the orientation of the electric field to the optical axis of the crystal. With increasing field strength the short-wave component shifted toward the violet, while the long-wave component shifted in opposite direction. The results obtained here indicate that the exciton dimensions in a CdS crystal are large and increase with increasing line frequency (quantum number n). The intensity of the satellites of the lines $n = 2$ and $n = 3$ increases with increasing field

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29814

S/020/61/140/006/010/030

B104/B102

The Stark effect on the exciton levels ...

strength. The results obtained agree with those of J. L. Birman (Ref. 9), D. G. Thomas et al. (Ref. 6), and A. Lempicki (Ref. 10). There are 4 figures and 10 references: 6 Soviet-bloc and 4 non-Soviet. The three most recent references to English-language publications read as follows: Ref. 6: D. G. Thomas, J. J. Hopfield, Phys. Rev., 116, 573 (1959); Ref. 9: J. L. Birman, Phys. Rev. Letters, 2, no. 4, 157 (1959); Ref. 10: A. Lempicki, Proc. Phys. Soc., 74, no. 475, 138 (1959).

SUBMITTED: July 26, 1961

Card 3/3

L 6943-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG
ACC NR: AP5017325

SOURCE CODE: UR/0181/65/007/007/2217/2219

AUTHOR: Gross, Ye. F.; Safarov, V. I.; Sedov, V. Ye.

48
B

ORG: Physicotechnical Institute, Im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiiy Institut AN SSSR)

TITLE: Luminescence of donor-acceptor pairs in GaAs crystals alloyed with Cd

SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2217-2219

TOPIC TAGS: luminescence spectrum, alloying, semiconducting material, semiconductor theory, ionization phenomenon

ABSTRACT: The photoluminescence spectrum of GaAs crystals, alloyed with Cd by diffusion from the gas phase, was studied as a function of: Cd concentration, temperature (4.2°-28°K), and the intensity of the stimulated light. The alloy concentration was changed by etching the surface where the diffused Cd has passed through. Data obtained at 4.2°K for the luminescence spectrum of crystals having a maximum Cd concentration of about $5 \times 10^{18} \text{ cm}^{-3}$ in the unetched condition, showed that in addition to the usual maximum occurring at 8340 Å--designated as region A, a new region 'B' was found at 8495 Å. Upon lowering the Cd concentration by progressively etching off the surface (2, 25, and 50 mk), the maximum in region B was displaced to higher energies or lower wavelengths; finally, it united with region A. For the lowest Cd con-

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L 6943-66

ACC NR: AP5017325

centration, 50 mk etched off, the spectrum did not show the above effect; instead, a visible region of marginal radiation and excitons appeared (designated as region 'ε'). For higher Cd concentrations, a decrease in stimulated emission from $I_{\max}$, by a factor of 100, induced the largest displacement of the B region maximum (from 8450 to 8560 Å), while hardly displacing the A region maximum. By increasing the temperature from 4.2°K, all of the crystals with Cd impurities exhibited a stretching in the region of free exciton emission, while regions A and B weakened in intensity. At higher temperatures, splitting and separation of the A and B maxima occurred in the heavily etched crystals. At 78°K, only regions A and ε were visible. An explanation of the observations is given in terms of the donor-acceptor pair model. Accordingly, for electron pair transitions from donor to acceptor levels, radiation of energy $E_g = (E_d + E_a) + e^2 (\epsilon r)^{-1}$ is emitted. Here, E --width of forbidden zone of the crystal, E_d and E_a --ionization energies of the donors and acceptors, r --distance between the donor and acceptor in a pair, and ϵ --dielectric constant of the crystal. The data is analyzed using the above-mentioned parameters for the donor-acceptor pair model. For the long wavelength edge of the B region (about 1.44 ev), with r approaching infinity for distant states, E_d is calculated to be 0.05 ev, using literature values for E_g and E_a . It is proposed that donor-acceptor pair interactions in GaAs and *in semiconducting lasers are responsible* for electroluminescence emission, and the associative maxima. Orig. art. has: 2 figures.

SUB CODE: SS/

SUBM DATE: 10Feb65/

ORIG REF: 002/

OTH REF: 007

Card 2/2 *beh*

SAFAROV, Ye. D.

"Distribution Curves and Safety Allowances and Their Use in Hydrological Calculations," Yerevan, 1947.

SAFAROV, Ye. D.

"Some Questions of Water Power and Power-Economic Calculations of Hydroelectric Stations." Sub 8 Mar 51, Power Engineering Institute G. M. Krzhizhanovskiy, Acad Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

SAFAROV, YE. D.

112-1-340

Translation from: Referativnyy Zhurnal, Elektrotehnika, Nr.1, 1957, p.57

AUTHOR: Safarov, Ye.D.

TITLE: Establishing the values of the basic characteristics of non-regulating rural hydrostations serving the needs of adaptable power consumers (Ustanovleniye velichiny osnovnykh parametrov nereguliruyushchikh sel'skikh gidrostantsiy, prednaznachennykh dlya nuzhd prispособlivayushchikhaya energopotrebiteley)

PERIODICAL: Sb.nauch.tr.Arm.s.kh.in-ta, 1955, nr.9, pp 285-293 (rez.arm.), (Armenian SSR).

ABSTRACT: In order to determine the basic parameters of a non-regulating hydroelectric power station operating under seasonal conditions, technical and economic indexes for production units operating according to seasonal charts as compared with units operating according to continuous charts, are analyzed. The derivation of basic formulas for calculating the necessary economic parameters is presented. One of the equations makes possible the selection of the installed capacity and, consequently, of the

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112-1-340
Establishing the values of the basic characteristics of non-regulating rural hydrostations serving the needs of adaptable power consumers. (Cont.)

other characteristics of the non-regulating hydroelectric power station, accounting for almost all the basic factors influencing its earning capacity. This equation can be solved either analytically, or graphically. However, in final conclusion, it is necessary to make a comparison of the relative costs of the hydroelectric power station and of substituting condensing steam plants. The comparison is made either for 1 kw of installed capacity or for 1 kwhr of produced energy. Bibliography: 6 titles.

YU.M.S.

Card 2/2

SAFAROV, Ye.D., prof., doktor tekhn.nauk; AKOPYAN, Ye., tekhn.red.

[Hydroelectric power stations (descriptive course)] Gidro-
elektricheskie stantsii; opisatel'nyi kurs. Metodicheskoe
posobie. Erevan, Erevanskii politekhn.in-t im. K.Marksa,
1959. 162 p. (MIRA 13:6)
(Hydroelectric power stations)

SAFAROV, Ye.D.; BURNACHYAN, G.A.

Determining energy parameters of a hydroelectric pumped storage station operating in an electric power system. Izv. AN Arm. SSR. Ser. tekhn. nauk 16 no.6:19-26 '63. (MIRA 17:1)

1. Yerevanskiy politekhnicheskii institut imeni Karla Marksa.

SAFAROV, Ye.D., doktor tekhn.nauk, prof.; SHCHERBAKOVA, O.P., inzh.

Methods for determining optimum powers of peak-load power plants in a power system in its development. Izv. vys. ucheb. zav.; energ. 6 no. 12:26-32 D '63. (MIRA 17:1)

SAFAROV, Ye.D.; VARDAZARYAN, K.A.

Methods for determining optimum power ratings of the peak-load electric power plants of a power system with consideration of power losses in transmission lines. Izv. AN Arm. SSR. Ser. tekhn. nauk 18 no.1:19-26 '65. (MIRA 18:7)

COUNTRY	: USSR
CATEGORY	: Cultivated Plants. Industrial, Oleiferous, Sugar. M
ABS. JOUR.	: RZhBiol., No.23 1958, No. 104757
AUTHOR	: Safarov, Ye. Sh.
INST.	:
TITLE	: On the Influence of Water Applications in the Period of Ripening on Cotton Yield.
ORIG. PUB.	: Khogagii kishicki Tochikiston, 1957, No. 10, 7-10; S. kh. Tadshikistana, 1957, No. 10, 7-9
ABSTRACT	: With sufficient soil moisture, formation of up to 44% of the aggregate yield of cotton plant takes place in the period of ripening. With 1-2 applications of water in this period, an increase in the yield of 2-3 centners/ha is secured. Applications of water in the period of ripening should be carried out judiciously, taking into account the temperatures conditions, with the availability of moisture in the soil at not more than 60% of the field moisture holding ability. Irrigation is done at small

Card: 1/2

SAFAROV, Ye. Sh.: Master Agric Sci (diss) -- "Irrigation of cotton during its ripening period and the effect of this on the yield and quality of the raw cotton". Tashkent, 1958. 17 pp (Uzbek Acad Agric Sci, Tashkent Agric Inst), 150 copies (KL, No 1, 1959, 122)

SAFAROV, Ye.Sh.

Effect of irrigation during the period of maturation on the speed of boll development and yield of cotton. Dokl. AN Uz. SSR no.6:49-53 '58. (MIRA 11:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khlopkovodstva Akademii sel'skokhozyaystvennykh nauk UzSSR. Predstavleno chlenom-korrespondentom AN UzSSR A.M. Mal'tsevim.
(Cotton growing) (Irrigation)

MIKHAYLOV, V.R.; SAFAROV, Yu.A., redaktor; GONCHAROV, I.A., tekhnicheskii redaktor.

[Graphic method of calculating tubing strings] Graficheskii metod rascheta ekspluatatsionnykh kolonn. Baku, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 39 p. (MIRA 8:4)
(Petroleum engineering--Graphic methods)

SAFAROV, YUSUF ALIKULOVICH

VASILEVSKIY, Yakov Mikhaylovich; SAFAROV, Yusif Alikulovich; SKVIRSKIY, A.S.,
redaktor; AL'TMAN, T.B., redaktor izdatel'stva

[Turbodrills in series and sections] Seriinye i sektiionnye turbo-
bury. Baku, Azerbaidzhanskoe gos.izd-vo nef. i nauchno-tekhn.
lit-ry, 1956. 186 p. (MIRA 10:8)
(Turbodrills)

KULIYEV, Israfil' Piri ogly, kandidat tekhnicheskikh nauk; SAFAROV, Yusif.
Ali ogly, kandidat tekhnicheskikh nauk; SEIDRZA, M., redaktor.

[Erection of offshore oil wells] Stroitel'stvo neftianyykh skvashin
na morsk. Baku, Azerbaidzhan'skoy gos. izd-vo neftianoy i nauchno-
tekhn. lit-ry, 1956. 327 p. (MIRA 9:6)

(Oil well drilling, Submarine)

SAFAROV, Yu.A.; AVETISYAN, A.A.; AMIRDZHANYAN, G.O.

The expediency of drilling wells with subsequent reaming.
Azerb.neft.khoz. 35 no.4:15-17 Ap '56. (MLRA 9:10)

(Oil well drilling)

N/5
741.32
.S12

Safarov, Yusif Ali

Elektrobureniye [Electrical drilling, by] Yu. A. Safarov, [I]
A. B. Fradkin. Baku, Aznefteizdat, 1957.

187 [2] p. illus., diagrs., graphs, tables.

"Literatura": p. [189]

SAFAROV, Yu.A.; FRADKIN, A.B.

New development in directional well drilling. Azerb.neft.khoz.
37 no.10:15-18 0 '58. (MIRA 12:2)
(Oil well drilling)

SAFAROV, Yu.A.; FRADKIN, A.B.

Experimental electric drilling in Azerbaijan oil fields. Azerb.
neft.khoz. 37 no.6:12-15 Js '59. (MIRA 13:4)
(Azerbaijan--Oil well drilling)

SAFAROV, Yu.A.; FRADKIN, A.B.

New development in electric drilling. Azerb. neft. khoz. 39 no.7:9-
10 JI '60. (MIRA 13:10)

(Oil well drilling, Electric)

SALAMOV, M.Yu.; SAFAROV, Yu.A.; BAGIROV, T.B.; KASUMBKOV, I.P.

Relationship between the number of revolutions of the bit
and efficiency in electric drilling. Azerb.neft.khoz. 40
no. 18-20 Ag '61. (MIRA 15:2)
(Oil well drilling, Electric)

SAFAROV, Yu. B.

"Data on a Study of Microbial Cultures Obtained from the Blood Serum and Aphthae of Cattle With Hoof and Mouth Disease. Cand Vet Sci, All-Union Inst of Experimental Veterinary Sci, Moscow, 1953. (RZhBiol, No 5, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

SAFAROV, Yu.B.

Effect of culture conditions on the variability of *Staphylococcus*
albus. Zhur. mikrobiol. epid. i immun. no.12:67 D '55. (MLRA 9:5)

(*MICROCOCCUS PYOGENES*, culture,
eff. of conditions of culture on variability)

SAFAROV Yu. B.

USSR/Diseases of Farm Animals. Diseases Caused by Viruses
and Rickettsiae.

R

Abs Jour: Ref Zhur-Biol., No 5, 1958, 21577.

Author : Safarov Yu., Ismailov Yu., Aliyev F.

Inst :

Title : Experimental Control of Foot-and-Mouth Disease

Orig Pub: Sots. s.-kh. Azerbaydzhana, 1957, No 5, 38-39.

Abstract: No abstract.

Card : 1/1

SAFAROV Yu. B.

USSR/Diseases of Farm Animals - Diseases Caused by Bacteria
and Fungi

R

Abs Jour : Ref Zhur Biol., No 5, 1959, 21381

Author : Safarov, Yu.

Inst :

Title : Infectious Enterotoxemia of Sheep in Azerbaydzhan.

Orig Pub : Sots. s. kh. Azerbaydzhana, 1958, No 3, 41-43

Abstract : Outbreaks of the disease were observed on winter pastures in fall, winter and spring. The disease ends with the onset of hot weather, the appearance of high grass and the transfer of the animals to summer pastures. The death rate reaches 15-20 percent and the lethality 100 percent. Both adult and young sheep become sick. Goats are seldom affected by the disease. When the pathological material obtained from 48 carcasses of lambs, sheep and goats of various rayons of the Republic was bacteriologically examined, the culture of Bac. perfringens was

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USSR/Diseases of Farm Animals - Diseases Caused by Bacteria
and Fungi

R

Abs Jour : Ref Zhur Biol., No 5, 1959, 21381

isolated in almost all of the cases. The isolated strains belonged to type "C" and in some cases to type "D". When combating the disease, good results are obtained by changing pastures and watering places of the animals. As a specific remedy, corresponding vaccines are used successfully. -- A.I. Gavrichenkov

Card 2/2

USSR / Diseases of Farm Animals. Diseases Caused by Viruses
and Rickettsiae.

R

Abstr Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7450

Author : Ismailov, Yu. D.; Safarov, Yu. B.; Aliyev, F. A.

Inst : Not given

Title : Biomycin in Infectious Agalactia of Lambs

Orig Pub : Veterinariya, 1958, No 3, 57-58

Abstract : An oral administration of biomycin twice daily in a 0.05 g/kg dose given at the early stage of becoming stricken with agalactia, led to 91.6 - 98.2 percent of the sick lambs becoming cured. In the ophthalmic form of the disease, best therapeutic effect was achieved when biomycin was applied with iodoform (the latter was insufflated into the eyes twice daily), and in the joint form with Lugol's

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USSR / Diseases of Farm Animals. Diseases Caused by Viruses
and Rickettsiae.

R

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7450

solution which was introduced into the joint every
2 days. -- L. S. Kirichonko

Card 2/2

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USSR/Diseases of Farm Animals - Diseases Caused by Bacteria
and Fungi

R

Abs Jour : Ref Zhur Biol., No 5, 1959, 21383

Author : Safarov, Yu.B.

Inst :

Title : A Mixed Infection in Sheep - Enterotoxemia and Bradsot

Orig Pub : Veterinariya, 1958, No 4, 30-33

Abstract : Four seasonal (November-May) outbreaks of a mixed infection are described which occurred at a sovkhos with a sheep population of about 30,000 heads. The death rate for a 4-month period amounted to 5 percent during the first outbreak. At the second outbreak, a vaccination of the sheep with a bivalent vaccine (BV) was initiated, the vaccine containing antigens *Vibrio septique* and *B. perfringens* of type C, and later since this vaccination proved not to be very effective, it was replaced by a concentrated polyvalent vaccine (PV) containing the

Card 1/2

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COUNTRY	: USSR
CATEGORY	: Microbiology. General Microbiology. Variability and Heredity
ABG. JOUR.	: BZhBiol., No. 3 1959, No. 9990
AUTHOR	: Gadzhiyev, F. M., -Safarov, Yu. B.
INST.	: Academy of Sciences of the AzerbSSR
TITLE	: The Study of Directed Variability of Staphylococci
ORIG. PUB.	: Dokl. AN AzerbSSR, 1958, 14, No 1, 61-64
ABSTRACT	: Cultures of the directing species which has been killed by heating to 80° for 1 hour were implanted among cultures of <u>Staphylococci albus</u> and <u>aureus</u> in Tyrode's medium without glucose. Subcultures were continued up to 30 generations. After every 3 subcultures 3-5 colonies were plated out and their properties studied. The occurrence of cultures atypical in their morphologic, cultural, serologic and biochemical properties was noted. The cultures acquired the properties of the directing species, and
Card:	1/2

F

COUNTRY :
CATEGORY :
AES. JOUR. : RZhBiol., No. 1959, No. 9990
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : the majority of them preserved the new properties
during maintenance and subculturing. Strains
isolated from pathological material were more
readily subjected to directed variation than the
museum strains. -- G. P. Kalina

Card: 2/2

Safarov Yu. B.

ISMAILOV, Yu.D., vetvrach; SAFAROV, Yu.B., kand.vet.nauk; ALIYEV, F.A.,
vet.tekhnik.

Biomycin in contagious agalactia of lambs. Veterinariia 35 no.3:57-58
Mr '58. (MIRA 11:3)

1. Sovkhoz "28 aprelya" Azerbaydzhanskoy SSR.
(Sheep--Diseases and pests) (Aureomycin)

SAFAROV, Yu.B., kand. vet. nauk.

Enterotoxemia and braxy as a combined infection of sheep. Veterinarila
35 no.4:30-33 Ap '58. (MIRA 11:3)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut.
(Sheep--Diseases)

SAFAROV, Yu.B.

Role of the central nervous system in the development of infection produced by facultative pathogens. Izv. AN Azerb. SSR, Ser. biol. i sel'khoz. nauk no. 2: 103-106 '59. (MIRA 12:8)
(ESCHERICHIA COLI) (CLOSTRIDIUM PERFRINGENS)
(NERVOUS SYSTEM)

SAFAROV, Yu.B.

Prevention of infectious enterotoxemia and braxy in sheep. Dokl.
AN Azerb. SSR 15 no.7:593-597 '59. (MIRA 12:11)
(Sheep--Diseases and pests) (Vaccines)

SAFAROV, Yu.B., kand.biolog.nauk

Induced entero-toxaemia in sheep. Dokl.Akad.sel'khoz. 24 no.12:
33-36 '59. (MIRA 13:4)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut. Predstavlena
akademikom S.N.Miromtsevyam.
(Sheep--Diseases and pests)

SAFAROV, Yu.B., dots.

Biomycin in the treatment of malignant edema of the uterus of sheep.
Veterinariia 36 no.12:22 D '59. (MIRA 13:3)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut.
(Sheep--Diseases and pests) (Aureomycin)

SAFAROV, Yu.B., dotsent

Biovetin in infectious enterotoxemia of sheep. Veterinariia
37 no.12:58-59 D '60. (MIRA 15:4)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut.
(Sheep--Diseases and pests) (Aureomycin)
(Clostridium perfringens)

SAFAROV, Yu. B.

Assistant Professor, Azerbaydzhan Agricultural Institute.

"Boivetin in infectious enterotoxemia of sheep," Veterinariya, Vol. 37, No. 12, p. 58, 1960.

SAFAROV, Yu.B.

Studies on the preventive and therapeutic activity of certain antibiotics on Bac. perfringens, V. septique and Bac. oedematiens. (MIRA 14:5)
Antibiotiki 6 no.1:55-58 Ja '61.

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut.
(ANTIBIOTICS) (CLOSTRIDIUM) (VIBRIO COMMA)

SAFAROV, Yu.B., dotsent

Immunization of sheep against bradsot and infectious enterotoxemia. Veterinariia 38 no.8:39-40 Ag '61 (MIRA 18:1)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut.

SAFAROV, Yu.B.

Resistivity of the causative agent of enterotoxemia of sheep to
the action of various chemicals. Izv.AN Azerb.SSR.Ser.biol.i med.
nauk. no.5:101-105 '62. (MIRA 15:9)

(SHEEP---DISEASES AND PESTS)

(CLOSTRIDIUM PERFRINGENS)

(BACTERIA, EFFECT OF DRUGS ON)

SAFAROV', Yu.B.

Morphological composition of the blood in experimental
infectious enterotoxemia. Dokl. AN Azerb. SSR 18 no.5:45-48
'62. (MIRA 15:7)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut.
Predstavleno akademikom AN AzSSR A.I. Karayevym.
(Sheep—Diseases and pests)
(Clostridium perfringens)
(Blood—Examination)

SAFAROV, K.M., prof.; SAFAROV, Yu.B., dotsent; DZHUMAYAN, S., veterinarnyy vrach

Preparation No. 74 for the treatment of calves infected with ringworm. Veterinariia 39 no.11:36-37 N '62. (MIRA 16:10)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut (for Safarov, K.M., Safarov, Yu.B.). 2. Kolkhoz imeni Myasnikova, Kirovabad, Azerbaydzhanskoy SSR (for Dzhumayan).

SAFAROV, Yu.B., dotsent

Viability of the pathogens of infectious enterotoxemia of sheep
in the external environment. Veterinariia 41 no.3:27-29 Mr '65.
(MIRA 18:4)

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut.

SAFAROV, Yu.B.; DZHUL'FAYEV, S.A.

Effect of antibiotics on the agglutinin titer in animals vaccinated
against coliparatyphoid infection. Antibiotiki 9 no.12:1092-1094 D
'64. (MIRA 18:7)

1. Kafedra epizootologii i mikrobiologii Azerbaydzhanskogo sel'skokhozyay-
stvennogo instituta, Kirovabad.

SAFAROV, Yu.B.

Effect of the subeffective dose of chemical disinfecting
solutions on the variability of *Clostridium perfringens*. Uch.
zap. AGU. Ser. biol. nauk no. 2:99-102 '64 (MIRA 19:1)

L 32652-66 EWT(1)/T JK

ACC NR: AP6003393

(A, N)

SOURCE CODE: UR/0346/65/000/010/0039/0040

AUTHORS: Safarov, Yu. B. (Docent); Ibragimov, N. M. (Hospital surgeon)

ORG: Azerbaidzhan Agriculture Institute (Azerbaydzhanskiy sel'skokhozyaystvennyy institut)

TITLE: Results of simultaneous vaccination of sheep against malignant anthrax, braxy, and infectious enterotoxemia

SOURCE: Veterinariya, no. 10, 1965, 39-40

TOPIC TAGS: anthrax, vaccine, animal disease therapeutics, animal disease, blood serum, protein / STI vaccine, GOA vaccine

ABSTRACT: The results of laboratory tests of simultaneous vaccination of sheep and white mice against malignant anthrax, braxy, and infectious enterotoxemia are given. Eighteen one-year-old rams and 144 white mice of 16-20 g were used. STI vaccine was used for malignant anthrax (0.25 ml for the rams and 0.01 ml for the mice), and GOA vaccine was used for the other diseases (2 and 3 ml in two vaccinations for the rams and 1.3 and 0.5 ml for the mice). The interval between the first and second vaccinations was 14 days. The tests were run in six versions. Unvaccinated rams and mice were used for controls. The morphological composition of the blood and protein, the degree of agglomeration of neutralizing antibodies in the blood serum, were determined by means of the neutralization reaction for Clostridium

UDC: 619:616.981.51.981.55.636.3

Card 1/2

L 32652-66

ACC NR: AP6003393

0

septicum and type-C Cl. perfringens. It was found that there were no sharp deviations from the norm in all versions of the test for the rams. In some versions, there was a sharp increase in the globulin fraction, a decrease in albumins, and a small decrease in the total protein. When simultaneous vaccination of animals against malignant anthrax, braxy, and infectious enterotoxemia is necessary, STI vaccine can be used with the second inoculation with concentrated polyvalent GOA vaccine.

SUB CODE: 06/ SUBM DATE: none

Card

2/2 BLG

SAFAROVA, B.N.

Rare case of a double fracture of a metal nail in the femoral canal. Ort. travm. i protez. 23 no.10:76 O '62. (MIRA 17:10)

1. Iz khirurgicheskogo otdeleniya (zav.- B.N. Safarova)
Chernogryazhskey bol'nitsy (glavnyy vrach - G.D. Rysin).
Adres avtora: stantsiya Skhodnya, Moskovskoy oblasti,
Chernogryazhskey bol'nitsa.

VINGRADOVA, I.L.; MURAZYAN, R.I.; SAFAROVA, A.A.

Dynamics of electrolyte disorders in the burn disease. Probl.
gemat. i perel. krovi 9 no.9:15-18 S '64. (MIRA 12:7)

1. Tsentral'nyy ordena Lenina institut gematologii i perelivaniya
krovi (direktor - dotsent A.Ye.Kiselev) Ministerstva zdavo-
okhraneniya SSSR, Moskva.

SAFAROVA, F. U., SIMONOVICH, A. D.

Children - Diseases

Cpsonophagocytic index in children in interparoxysmal stage of rheumatism. *Pediatrica*, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

SMIRNOVA, N.G.; SAFAROVA, F.U.

Effect of complex therapy of rheumatism in children in Kislovodsk
on the opsonocytophagic index. *Pediatrics* no.5:89-90 S-O '54.
(MLRA 7:12)

1. Iz Detskogo klinicheskogo sanatoriya v Kislovodske
(RHEUMATISM, in infant and child,
ther., eff. on hemophagocytic index)
(PHAGOCYTOSIS,
hemophagocytic index, eff. of ther. of rheum. in child.)

SAFAROVA, F.U.

Sore throat and rheumatic fever. *Pediatrics* 37 no.9:89 S '59.
(MIRA 13:2)

1. Iz detskogo klinicheskogo sanatoriya "Smena."
(NASOPHARYNX--DISEASES) (RHEUMATIC FEVER)

SAFAROVA, I.G.

FOMIN, P.D.; MIL'CHENKO, I.S., retsenzent; SAFAROVA, I.G., retsenzent.

[Cotton's machines and the technology of flat-knit production] Kottonnye mashiny i tekhnologiya ploskochulchnogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia SSSR, 1953. 511 p. (MLRA 7:6)
(Knitting machinery)

Safarova, N.

MECIR, M., MUDr.; SAFAROVA, N., MUDr.

Experiences with motor education in children. Cesk. pediat.
11 no.11:842-845 Nov 56.

1. Ustav pro peci o matku a dite, reditel prof. Dr. J. Trapl,
vedouci pediatrickeho vyzkumu doc. Dr. K. Kubat, Statni
kojenecky ustav v Koline, lekarsky reditel Dr. N. Safarova.

(MOVEMENT

locomotor educ. in institutionalized child. (Cz))

(CHILD WELFARE

child. homes, locomotor educ. in (Cz))

SVOBODA, Milan; SAFAROVA, Nadezda

Fatal osteogenesis imperfecta of Vrolik; case reports. Cesk. rentg. 12
no.1:32-34 Mar 58.

1. Ustredni rentgenove oddeleni (primar Dr. M. Svoboda) - Detske oddeleni
(primar Dr. L. Sabata) KUNZ nemocnice v Ceskych Budejovicich. M. S.,
Ustav hem. a krev. transf. Praha II, U nemocnice.
(OSTEOGENESIS IMPERFECTA, case reports
fatal cases (Cz))

JIRKA, J. Technická spolupráce: HORÁČKOVÁ, D.; KOTRBATA, M.; ŠAFAROVÁ, S.

On administration of Psychoten in chronic renal insufficiency.
Cas. lek. česk. 104 no.3:71-75 22 Ja '65

1. Ústav pro choroby oběhu krve v Praze-Krci (ředitel -
prof. dr. J. Brod. DrSc.).

SAFAROVA, Saniya Amrullova; ZAKLINSKAYA, Ye.D., otv. red.

[Into the depths of millennia with a microscope] S mikro-
skopom v glub' tysiacheletii. Moskva, Nauka, 1964. 55 p.
(MIRA 17:8)

YUNUSOV, A.Yu.; RAKHIMOV, K.; SAFAROVA, S.N.

Amylolytic activity of the pancreas, liver and intestine under
the conditions of high temperature and insolation. -Uzb. biol.
zhur. 9 no.4:35-38 '65. (MIRA 18:10)

1. Institut krayevoy meditsiny AMN SSSR.

ADIGEZALOVA-POLCHAYEVA, K.A.; KURBANOVA, M.M.; SAFAROVA, T.A.; ALEKPEROVA, A.D.

Results of different methods of treating trachoma in rural
localities. Azerb. med. zhur. no.12:17-22 D '61. (MIRA 15:3)
(CONJUNCTIVITIS, GRANULAR)

ADIGEZAIOVA-POLCHAYEVA, K.A., prof.; SAFAROVA, T.A., nauchnyy sotrudnik

Treatment of pigmented degeneration of the retina. Azerb. med.
zhur. 40 no.10:16-21 0*63 (MIRA 17:7)

1. Iz Nauchno-issledovatel'skogo instituta oftal'mologii (dir.-
N.M.Efendiyev), Baku, AN AzerbSSR.

KUTUZOV, L.G.; RYSIN, V.I., inzh.; SHIRKEVICH, N.S., inzh.; KUZNETSOV, N.D., inzh.; FILIMONTSEV, I.S., inzh.; PAPINOVA, O.I., inzh.; KHOLODKOV, N.Ye., inzh.; ASTAFUROV, O.A.; SASS, K.Z.; SASIM, A.S.; SAFAROVA, Ye.S. [deceased]

Exchange of practices by the enterprises of economic councils.
Torf. prom. 40 no.7:34-38 '63. (MIRA 17:1)

1. Gusevskoye torfopredpriyatiye Verkhne-Volzhskogo soveta narodnogo khozyaystva (for Kutuzov).
2. Torfopredpriyatiye Vasilevichi II Belorusskogo soveta narodnogo khozyaystva (for Shirkevich, Filimontsev, Papinova, Kholodkov).
3. Stavskiy lesnoy khimicheskiy kombinat Gor'kovskoy obl. (for Kuznetsov).
4. Fornosovskiy torfobriketnyy zavod Leningradskogo gosudarstvennogo tresta torfyanoy promyshlennosti (for Sass).

SAFARYAN, A.

Pulp-level regulators for flotation machines. Prom.Arm. 4
no.3:31 Mr :61. (MIRA 14:6)
(Liquid level indicators)

SAFARYAN, A.A.; PAREISHVILI, Ye.A.; IZMAYLOVA, Ye.F.

Hemopoiesis and hemorrhagic syndromes in healthy dogs. Izv. AN Arm.
SSR. Biol. i sel'khoz. nauki 11 no.7:23-28 J1 '58. (MIRA 11:9)

1.Armyanskiy institut perelivaniya krovi Ministerstva zdravookhraneniya
ArmSSR.

(HEMOPOIETIC SYSTEM)

SAFARYAN, A.A.; PAREYSHVILI, Ye.A.; IZMAYLOVA, Ye.F.

Thrombocyte count in leukemia [with summary in English, p.63].

Probl.gemat. i perel.krovi 4 no.1:53-54 Ja-F '59.

(MIRA 12:2)

1. Iz Nauchno-issledovatel'skogo instituta perelivaniya krovi imeni
R.O. Yeolyana (dir. K.A. Antonyan) Ministerstva zdravookhraneniya
ArmSSR..

(LEUKEMIA, blood in,
platelet count (Rus))

(BLOOD PLATELETS,
count in leukemia (Rus))

AKOPYAN, A.N.; SAAKYAN, A.M.; SAFARYAN, A.A.

Chemistry of divinylacetylene and its halo derivatives. Part 10:
Chlorination of trichloroethylene, perchloroethylene, and benzene
initiated by vinylacetylene hydrocarbons. Zhur.ob.khim. 32 no.4:
1098-1104 Ap '62. (MIRA 15:4)

1. Institut organicheskoy khimii AN Armyanskoy SSR.
(Chlorination) (Butenyne)

SAFARYAN, A.G.

Pharmacological investigation of the preparation "RA." Izv. AN Arm.
SSSR. Biol. i sel'khoz. nauki 11 no.3:29-33 Mr '58. (MIRA 11:3)

1. Yerevanskiy zooveterinarnyy institut.
(PHARMACOLOGY)

DOLABCHYAN, Z.L.; KUZNETSOVA, M.M.; SAFARYAN, A.Kh.; ASATRYAN, S.I.

Types of the electromechanical activity of the heart in mitral stenosis. Izv. AN Arm. SSR. Biol. nauki 17 no. 7:37-43 J1 '64. (MIRA 17:10)

1. Institut kardiologii i serdechnoy khirurgii AMN SSSR.

SAFAR'YAN, A.M., inzhener; KURTANIDZE, V.M., inzhener

Protecting roads from gully detritus. Avt.dor.17 no.3:10-11
N-D'54. (MIRA 8:10)

(Georgia--Road drainage)

SAFAR'YAN, A.M., inzhener.

A new approach to the calculation of nearrigid pavements. Avt.der.
19 no.2:26-27 F '56. (MLRA 9:6)
(Pavements)

SAFARYAN A. M.

CH V. Manufacturing of Muscat wines in the Anapa region U.S.S.R.]. S. S. Serzhenko and A. M. Safaryan (Vincul-
ture Exptl. Sta., Anapa, U.S.S.R.). *Vinogradstvo i Vino-
gradstvo S.S.S.R.* 15, No. 1, 6-8(1955). The grape
variety, Hamburg Muscat, grown in the Anapa region, U.S.
S.R., yields 70 and more centners grapes/ha., with a grape
sugar concn. of 20.7-24.2% and total acidity of 5.1-6.3 g./l.
The wines of the 1949-1953 preps. beside high organoleptic
qualities showed the following chem. compns.: alc. 13.34-
16.19%, sugar 16.60-17.68%, titratable acidity 4.1-4.7
g./l., total extractable substances 26.2-33.9 g./l., and sp.
gr. 1.0523-1.0635. E. Wierbicki

(1)

Safaryan, A.M.

✓ [High] quality wines from the [grape] variety Portugizer.
A. M. Safaryan (Zonal Exptl. Sta., Anapa). *Sadovodstvo*,
Vinogradarstvo 1: Vinodelia Moldavi 11, No. 2, 46(1956). ✓
The quality of wine produced from the variety Portugizer,
commonly used for the manufg. of port wines in Russia,
was greatly improved by mixing (1:1) the must of this
variety with grape musts of the native varieties, Saperavi
and Kaberne (possessing more coloring substances and a
greater tartness) and fermenting the must mixts. in the pres-
ence of the grape pulps. This is expressed by the following
chem. properties of the wines (in addn. to superior color,
taste, and flavor) (in parentheses the values for the Portugi-
zer control are given): alc. 9.92-11.2% (9.26) and the ext.
23.9-26.5 (24.2); titratable acidity 5.6-6.7 (4.8); volatile
acids 0.73-1.20 (0.79), and tannins 0.91-1.58 g./l. (0.63);
and sp. gr. 0.9939-0.9959 (0.9961). E. Wierbicki

SAFARIAN, A. N.

DECEASED

o.'60

1962/
7

Seismology

see IIC

SAFARYAN, A.S., inzh.; SARKISYAN, A.Ya.

Hydrodynamic flowmeter for concentrates. Gor. zhur. no. 11:73
N '60. (MIRA 13:10)

1. Kirovokanskiy nauchno-issledovatel'skiy institut
avtomatizatsii proizvodstvennykh protsessov khimicheskoy
promyshlennosti i tsvetnoy metallurgii.
(Ore dressing--Equipment and supplies)

PHASE I BOOK EXPLOITATION

SOV/6282

Gorenshteyn, I. A., I. A. Shul'man, and A. S. Safaryan

Inertsial'naya navigatsiya (Inertial Navigation). Moscow, "Sovetskoye radio", 1962. 248 p. Errata slip inserted. 9000 copies printed.

Ed. (Title page): G. O. Fridlender, Professor; Ed.: I. M. Volkova;
Tech. Ed.: V. V. Belyayeva.

PURPOSE: This book is intended for designers and personnel in the air force, rocketry, and the navy. It can also be used by students in academies and institutes specializing in navigation instrument building.

COVERAGE: The book describes the construction, operating procedure, and adjustment of inertial navigation systems. The following elements of inertial systems are described: gyroscopes, accelerometers, moment-data and angle-data transmitters, and computers. The "state of the art" and prospects in the production of these instruments are reviewed. There are no references.

~~Card 1/4~~

SAFARYAN, A.S.

Reaction-type pickup of pulp consumption. Priborostroyenie no.7:27 JI
'62. (MIRA 15:7)

(Flowmeters)

1. AYVAZYAN, P. K.; SAFARYAN, D. L.
2. USSR (600)
4. Viticulture - Ararat Valley
7. Using green shoots for layering in Ararat Valley. Vin. SSSR 13, No. 5, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 82537

Author : Safaryan, D.L.

Inst : Armenian Scientific Research Institute of Viniculture,
Wine-Making and Horticulture.

Title : On the Transitional Forms of Inflorescences and Tendrils
of the Grape Vine (Preliminary Report)

Orig Pub : Byul. nauchno-tekhn. infor, Arm. n.-i. in-ta vinogradarst-
va, vinodeliya i plodovodstva, 1957, No 1, 13-16

Abstract : Facts contradicting the existing theory of sympodial
branching of the shoots in grape are described. The mi-
croscopic studies conducted on the eyes and observations
on the flower clusters and tendrils on the shoots showed
that the formation of the inflorescences and tendrils
does not begin from the 3-6 nodes and does not have a

Card 1/2

- 146 -

L 21007-65 ASD(a)-5/AFWL/BSO/SSD(c)/ASM(p)-2/ESD(gs)/ESD(t)
ACCESSION NR: AP4041038 S/0120/64/000/003/0146/0148

AUTHOR: Kazaryan, R. A.; Vardanyan, E. S.; Safaryan, F. P.

TITLE: Measuring the energy of pulsed luminous radiation 911

SOURCE: Priory* i tekhnika eksperimenta no. 3, 1964, 146-148

TOPIC TAGS: radiation, luminous radiation, pulsed luminous radiation,
light pulse measurement, bolometer

ABSTRACT: Two bolometric methods of measuring the energy of light pulses are described. The first method includes the use of a high-stability M4-1 thermistor bridge whose T8S1M sensor thermistor is fastened to a "wasp's nest," brass-foil, 400-mg absorber. The energy was measured by the difference in temperatures between the above absorber and another which allowed for ambient conditions. Sensitivity was a few hundredths of a joule; the method is recommended for measuring low energies. The second method uses a double-cone absorber made

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L 21007-65

ACCESSION NR: AP4041038

from 0.08-mm enameled copper wire (57 ohms). It is recommended for measuring energies of 1 joule and up. To avoid considerable error, the bolometer is placed in a 10^{-1} torr vacuum. Both methods are suitable for measuring continuous luminous radiation. "In conclusion, the authors wish to thank V. Arakelyan for his active part in developing the second bolometer and in making measurements, and also P. Pogoyan who helped in making vacuum measurements." Orig. art. has: 2 figures and 8 formulas.

ASSOCIATION: Yerevanskiy gosudarstvennyy universitet (Yerevan State University)

SUBMITTED: 15Jun63

ENCL: 00

SUB CODE: NP, OP

NO REF SOV: 000

OTHER: 002

Card 2/2

MOVSESYAN, M.Ye.; GEVORKYAN, V.A.; SAFARYAN, F.P.; MEZHLUMYAN, P.G.

Luminescence of samarium, europium, and terbium acetylacetonates.
Izv. AN Arm. SSR. Ser.fiz.-mat. nauk 18 no.4:101-105 '65. (MIRA 18:9)

1. Yerevanskiy gosudarstvennyy universitet.

L 15812-66 EWT(m)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) JD/JG/RM

ACC NR: AP6000904

SOURCE CODE: UR/0022/65/018/004/0101/0105

AUTHOR: Movsesyan, M. Ye.; Gevorkyan, V. A.; Safaryan, E. P.; Mezhlumyan, P. G. 62

ORG: Yerevan State University (Yerevanskiy gosudarstvennyy universitet) 3

TITLE: Investigation of luminescence of acetyl acetates of samarium, europium, and terbium 21

SOURCE: AN ArmSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, v. 18, no. 4, 1965, 101-105

TOPIC TAGS: samarium compound, europium compound, terbium compound, luminescence, absorption spectrum, temperature dependence, rare earth element, luminescence spectrum, spectral line

ABSTRACT: In view of the possibility of obtaining a large quantum yield from organic complexes of rare-earth elements, the authors synthesized acetyl acetate complexes with Sm, Eu, and Tb by means of a technique described by B. B. Amufriyev and A. N. Zaydel' (ZhETF, v. 24, no. 1, 1953, 114). The absorption of the solutions of the complexes of the rare-earth elements was investigated with the aid of a quartz spectrophotometer (SF-4). A spectrograph (ISP-73) and photographic photometry were employed in the visible region. The samples were cooled with nitrogen vapor. The absorption spectra showed the presence of two absorption regions with a slight contribution from the rare-earth ion. The luminescent spectra obtained at -185C showed strong luminescence for the Sm complex (especially at 6453 Å), which became stronger with decreasing temperature. In the case of Eu, only a few luminescence lines were observed at room temperature, but more at -185C. The Tb acetyl acetate had intense

Card 1/2

L 15812-66

ACC NR: AP6000904

luminescence at room temperature, especially at 5420, 5446, and 5472 Å. Lowering the temperature caused line shifts and a redistribution of the luminescence intensity. The data on the various lines are tabulated. Authors thank Candidate of Chemical Sciences S. A. Vardanyan for consultation on the synthesis of the complexes. Orig. art. has: 3 figures and 4 tables.

SUB CODE: 07/

SUBM DATE: 21Dec64/

ORIG REF: 009/

OTH REF: 001

Card 2/2 SYN

S. SAFARYAN, G.A.

SAFARYAN, G.A.

Using conditioned response methods in feeding psychiatric patients
who reject food. Zhur.nevr. i psikh. Supplement:93-94 '57.
(MIRA 11:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut sudebnoy
psikhiatrii imeni V.P.Serbskogo (dir. - prof. A.I.Buneyev),
Moskva.

(CONDITIONED RESPONSE) (SCHIZOPHRENIA)
(APPETITE)

ZHDANOV, Yu.A.; DOROFYENKO, G.N.; PALCHKOV, V.A.; SAFARYAN, G.P.

Condensation of 1-methyl-3-phenyl-5,6,7,8-tetrahydroiso-
chromylum perchlorate with aromatic aldehydes. Dokl. AN
SSSR 155 no. 5:1115-1118 Ap '64. (MIRA 17:5)

1. Rostovskiy-na-Donu gosudarstvennyy universitet. Pred-
stavleno akademikom M.M. Shemyakinym.

SAFARYAN, M.K., kandidat tekhnicheskikh nauk; LESSIG, Ye.N., kandidat
~~tekhnicheskikh nauk.~~

Horizontal storage tank with cylindrical ends, resting on two supports. Trudy VNII Stroinefti no.6:93-112 '54. (MIRA 10:1)
(Petroleum--Storage) (Tanks)